

## CWSF 2019 - Fredericton, New Brunswick



### Cameron Sawka

#### Carbon Capture: Combating Climate Change

**Challenge:** Environment

**Category:** Junior

**Region:** Pacific Northwest

**City:** Prince Rupert, BC

**School:** Prince Rupert Middle School

**Abstract:** Atmospheric carbon dioxide is the leading factor in global warming. My scientific inquiry explores the molecular structure of carbon dioxide, its properties, and how it is contributing to ocean acidification and climate change. My study examines the most effective methods of carbon capture and I conducted ocean acidification experiments on mollusk shells. My innovation was to build a carbon capture robot that assists in reforestation.

#### Biography

I am a grade 7 middle school student. I've been interested in climate change for a few years. We created science magazines in class and this was my topic. This led me to experimenting with alternative forms of energy and earning gold in our regional science fair last year. This year I wanted to take this topic further to understand how carbon capture could be enhanced by reforestation and robotics. I am also interested in the impacts of ocean acidification as I live on the North Coast of BC in the heart of Ts'msyen unceded territory. My passions are STEM, coding robotics, plants, animation, and basketball. I want to pursue computer engineering at university and become a green energy entrepreneur one day.

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